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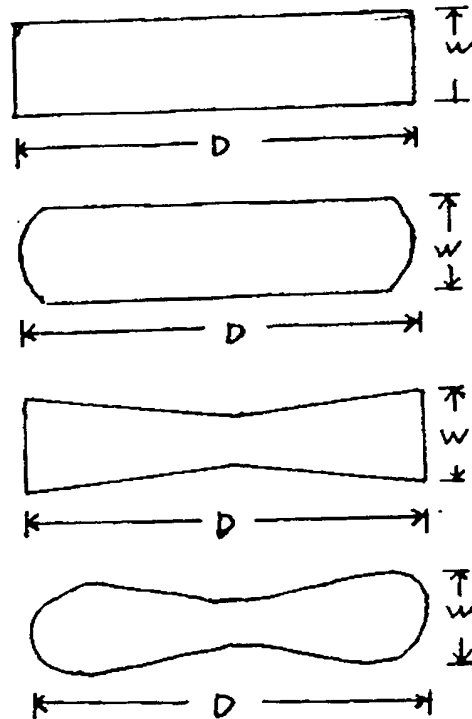
APPLICATION DATE : 30-05-85
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APPLICANT : MITSUI COKES KOGYO KK;

INVENTOR : HIRATA KEIICHI;

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TITLE : PITCH-BASED CARBON FIBER AND
PRODUCTION THEREOF



ABSTRACT : PURPOSE: To provide the titled carbon fiber having oblong circular contour of the cross-section, containing crystals oriented perpendicular to the outer circumference taking a folded structure, free of cracks and having high fiber strength.

CONSTITUTION: The spinneret used in the present process has noncircular cross-section characterized by the nozzle flatness W/D of $1/1.5 \sim 1/10$, preferably $1/2 \sim 1/6$ wherein W is the length of minor side or minor diameter and D is the length of major side or major diameter. Mesophase pitch having a viscosity of $100 \sim 2,000$ poise in the nozzle is spun in molten state keeping the extrusion pressure difference between both sides of the spinneret capillary to $\leq 1 \text{ kg/cm}^2$ and the spun fiber is infusibilized, carbonated and, if necessary, graphitized to obtain the objective carbon fiber.

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